



COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010453
CERTIFICATION DATE: December 4, 2013
DATE RECERTIFICATION DUE: June 2, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

Melissa Kennedy

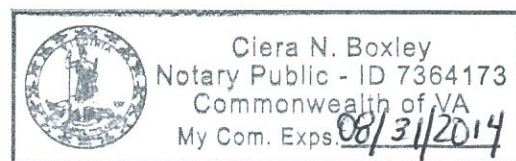
Program Manager, Calibration & Training

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 12th day of
December, 2013 by Melissa Kennedy

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014
TLN



Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 12/9/2013

HMS
NMJ

Instrument Serial Number: 010453 **As of 09-Dec-13**

Maintenance Date	Certification Date	Technician Initials	Remarks
04-Dec-13	04-Dec-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED, REPLACED DRY GAS STANDARD.
17-Jun-13	17-Jun-13	HMS (18910)	CERTIFIED
29-May-13	29-May-13	DBH (21250)	CERTIFIED.
08-Jan-13	08-Jan-13	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
17-Jul-12	17-Jul-12	HMS (18910)	CERTIFIED
31-Jan-12	31-Jan-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
10-Aug-11	10-Aug-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
24-Feb-11	24-Feb-11	RJP (22428)	CERTIFIED.
08-Sep-10	08-Sep-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED.
23-Mar-10	23-Mar-10	RJP (22428)	CERTIFIED
08-Oct-09	08-Oct-09	RJP (22428)	CERTIFIED.
18-Aug-09	18-Aug-09	RJP (22428)	CALIBRATED AND CERTIFIED.
06-Aug-09	06-Aug-09	RJP (22428)	CERTIFIED.
25-Jun-09	25-Jun-09	RJP (22428)	CALIBRATED AND CERTIFIED.
11-May-09	11-May-09	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
29-Apr-09	29-Apr-09	NMJ (22392)	REPLACED TANK TOP LID, CERTIFIED.
06-Nov-08	06-Nov-08	HMS (18910)	CERTIFIED.
24-Oct-08	24-Oct-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

INTOX EC/IR II
Quality Assurance Worksheet

AMS
MJK

Instrument Serial Number 010453 Worksheet Start Date 12/4/2013

Location Clifton Forge Police Department

Address 547 Main St., Clifton Forge, VA 24422

DFS Technician Heather Stanton License No. 18910

☐ Laboratory ☒ On-Site

Site Specifications

Yes No

1 Secured Environment:

Location must not be accessible to the general public.

☒ ☐

2 Environment free from contaminants

☒ ☐

3 Dedicated telephone line:

The phone line should be used solely by the instrument.

☒ ☐

4 Adequate Ventilation:

Enough space must be provided for the instrument and the printer to allow for adequate ventilation.

☒ ☐

5 Stable temperature controls:

The instrument should not be exposed to direct sources of temperature variation.

☒ ☐

6 115VAC power source:

Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.

☒ ☐

7 Room Condition:

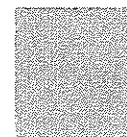
The site should be free of excessive moisture, heat and dust.

☒ ☐

Old serial no. New serial no.

E-Seek
Keyboard
Printer
UPS

Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:



Maintenance (if any)
Firmware/software upgrade.

Comments (if any)

Instrument Serial Number 010453

Certification Date 12/4/2013

Instrument Barometer (mm HG) 731

Reference Barometer (mm HG) 732

Reference Barometer(RB)Serial # 009113

RB Calibration Due 5/8/2014

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.238
0.250	0.241	0.233	0.248	Sample 2	0.238
Precision		sample min	sample max	Sample 3	0.238
0		0.238	0.238		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.143
0.150	0.144	0.139	0.148	Sample 2	0.143
Precision		sample min	sample max	Sample 3	0.143
0		0.143	0.143		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.076
0.080	0.077	0.074	0.080	Sample 2	0.076
Precision		sample min	sample max	Sample 3	0.076
0		0.076	0.076		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.018
0.020	0.019	0.016	0.022	Sample 2	0.018
Precision		sample min	sample max	Sample 3	0.018
0		0.018	0.018		

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated☒ Certified☒ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG219101-11

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.096
0.100	0.096	0.093	0.099	Sample 2	0.096
Precision		sample min	sample max	Sample 3	0.096
0		0.096	0.096		

DFS Technician

Heath W. Stark

Date

12/9/13

Issuing Analyst

Melrose Kennedy

Date

12/10/13

Intox EC/IR II QA Worksheet

Issued by Calibration and Training Program Manager

Issue Date: 4-March-2013

DFS Document 250-F113

Revision 6

Page 2 of 2

TLN




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

hms
msk

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 12/04/2013
TEST EQUIPMENT NUMBER 010453		

RESULTS: TIME SAMPLE TAKEN 15:03 EST

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____ OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 04 Dec 2013 at 15:37

MMB
HNS
MSH

Test Results

Instrument Serial Number 010453

Test # 000282 Subject Test

Test Location 1 Department of
Test Date 04 Dec 2013

Test Location 2 Forensic Science
Test Time 14:57
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M
License Number 18910

Card Serial Number 118910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 04 Dec 2013 End Time 15:04

Result Time 15:03

Result Date 04 Dec 2013

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 14:57

Data Type BLK

Sample Value 0.000

Sample Time 14:58

Data Type CHK

Sample Value 0.096

Sample Time 14:58

Data Type BLK

Sample Value 0.000

Sample Time 15:00

Data Type SUBJ

Sample Value 0.000

Sample Time 15:00

Data Type BLK

Sample Value 0.000

Sample Time 15:01

Data Type SUBJ

Sample Value 0.000

Sample Time 15:03

Data Type BLK

Sample Value 0.000

Sample Time 15:04

Standard Type Dry Gas Std

Standard Value 0.096

Standard Lot Number AG219101-01

Standard Expiration Date 07/09/2014

Tank Pressure 1105

Barometric Pressure 731 mmHg

Blow Sample Number 1 Blow Duration 3.55 sec

Blow Volume 1741 cc End-of-Blow Time 15:00

Blow Sample Number 2 Blow Duration 3.61 sec

Blow Volume 1708 cc End-of-Blow Time 15:03

Tamper Evident Stamp 7135dfc5

Test Status Code 0

Test Status Success

HMS

MSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010453 Test Number: 283
Test Date: 12/04/2013 Test Time: 15:07 EST

Technician Initials: HMS

Dry Gas Target: 0.096

Lot Number: AG219101-01 Exp Date: 07/09/2014

Tank Pressure: 1095 psi Barometric Pressure: 731 mmHg

Test	g/210L	Time
DIAG	Pass	15:08
BLK	0.000	15:08
CHK	0.095	15:09
BLK	0.000	15:10
CHK	0.096	15:11
BLK	0.000	15:12
CHK	0.095	15:13
BLK	0.000	15:14

Success

Standard Value (at sea level): 0.100 g/210L

Certification Status: Success

One point certification done prior to firmware/
software upgrade due to certification warning on display.

HMS

12/4/13

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010453 Test Number: 284

Test Date: 12/04/2013 Test Time: 15:16 EST

Dry Gas Target: 0.096

Lot Number: AG219101-01 Exp Date: 07/09/2014

Tank Pressure: 1080 psi Barometric Pressure: 731 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	15:16
CHK	0.095	15:17
BLK	0.000	15:19
CHK	0.095	15:19
BLK	0.000	15:21
CHK	0.095	15:21

Test Status: *Success*

Calibration CRC: 6D2735B4

Handwritten initials/signature in the top right corner.

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010453 Test Number: 285

Test Date: 12/04/2013 Test Time: 15:23 EST

Dry Gas Target: 0.289

Lot Number: AG322702-01 Exp Date: 08/15/2015

Tank Pressure: 75 psi Barometric Pressure: 732 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	15:24
CHK	0.287	15:25
BLK	0.000	15:26
CHK	0.287	15:27
BLK	0.000	15:29
CHK	0.286	15:30

Test Status: *Success*

Calibration CRC: 6D2735B4

AMS
Mik

Intox EC/IR-II: Software Version

Department of Forensic Science

Serial Number: 010453

System Date: 12/04/2013

System Time: 15:52 EST

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

AMS
MSK

Intox EC/IR-II: Calibration

Department of Forensic Science

Serial Number: 010453 Test Number: 286

Test Date: 12/04/2013 Test Time: 15:53 EST

Dry Gas Target: 0.096

Lot Number: 0651210013-06 Exp Date: 04/01/2014

Tank Pressure: 566 psi Barometric Pressure: 731 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	15:54
CAL	0.096	15:55

Test Status: *Success*

Calibration CRC: 60D5B217

HMS
R2K

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010453 Test Number: 287

Test Date: 12/04/2013 Test Time: 15:57 EST

Technician Initials: HMS

Dry Gas Target: 0.241

Lot Number: 2961225012-08 Exp Date: 11/01/2014

Tank Pressure: 208 psi Barometric Pressure: 731 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:58
BLK	0.000	15:58
CHK	0.238	15:59
BLK	0.000	16:01
CHK	0.238	16:02
BLK	0.000	16:03
CHK	0.238	16:04
BLK	0.000	16:06

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

HMS
MSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010453 Test Number: 288

Test Date: 12/04/2013 Test Time: 16:07 EST

Technician Initials: HMS

Dry Gas Target: 0.144

Lot Number: 2951215012-02 Exp Date: 11/01/2014

Tank Pressure: 644 psi Barometric Pressure: 731 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	16:07
BLK	0.000	16:08
CHK	0.143	16:09
BLK	0.000	16:10
CHK	0.143	16:11
BLK	0.000	16:13
CHK	0.143	16:13
BLK	0.000	16:15

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

HMS
MSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010453 Test Number: 289
Test Date: 12/04/2013 Test Time: 16:16 EST

Technician Initials: HMS

Dry Gas Target: 0.077

Lot Number: 0771308012-04 Exp Date: 05/01/2015

Tank Pressure: 737 psi Barometric Pressure: 731 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	16:17
BLK	0.000	16:18
CHK	0.076	16:18
BLK	0.000	16:20
CHK	0.076	16:20
BLK	0.000	16:22
CHK	0.076	16:22
BLK	0.000	16:24

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

HMS

MSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010453 Test Number: 290

Test Date: 12/04/2013 Test Time: 16:25 EST

Technician Initials: HMS

Dry Gas Target: 0.019

Lot Number: 0771302011-04 Exp Date: 05/01/2015

Tank Pressure: 835 psi Barometric Pressure: 731 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	16:25
BLK	0.000	16:26
CHK	0.018	16:27
BLK	0.000	16:28
CHK	0.018	16:29
BLK	0.000	16:30
CHK	0.018	16:31
BLK	0.000	16:32

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

HMS
M2K

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010453 Test Number: 291

Test Date: 12/04/2013 Test Time: 16:35 EST

Dry Gas Target: 0.289

Lot Number: AG322702-01 Exp Date: 08/15/2015

Tank Pressure: 71 psi Barometric Pressure: 731 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	16:36
CHK	0.290	16:36
BLK	0.000	16:38
CHK	0.290	16:39
BLK	0.000	16:41
CHK	0.290	16:42

Test Status: *Success*

Calibration CRC: 60D5B217

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Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010453 Test Number: 292

Test Date: 12/04/2013 Test Time: 16:44 EST

Dry Gas Target: 0.096

Lot Number: AG219101-11 Exp Date: 07/09/2014

Tank Pressure: 164 psi Barometric Pressure: 731 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	16:45
CHK	0.096	16:46
BLK	0.000	16:47
CHK	0.096	16:48
BLK	0.000	16:50
CHK	0.096	16:50

Test Status: *Success*

Calibration CRC: 60D5B217




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

Handwritten initials: HMO and MSK

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 12/04/2013
TEST EQUIPMENT NUMBER 010453		

RESULTS: TIME SAMPLE TAKEN 16:58 EST

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 09 Dec 2013 at 08:31

Handwritten initials:
KMS
Rsk

Test Results

Instrument Serial Number 010453

Test # 000293 Subject Test

Test Location 1 Department of
Test Date 04 Dec 2013

Test Location 2 Forensic Science
Test Time 16:51
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M
License Number 18910

Card Serial Number 118910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 04 Dec 2013 End Time 16:59

Result Time 16:58

Result Date 04 Dec 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 16:52

Data Type BLK

Sample Value 0.000

Sample Time 16:53

Data Type CHK

Sample Value 0.096

Sample Time 16:53

Data Type BLK

Sample Value 0.000

Sample Time 16:55

Data Type SUBJ

Sample Value 0.000

Sample Time 16:56

Data Type BLK

Sample Value 0.000

Sample Time 16:57

Data Type SUBJ

Sample Value 0.000

Sample Time 16:58

Data Type BLK

Sample Value 0.000

Sample Time 16:59

Standard Type Dry Gas Std

Standard Value 0.096

Standard Lot Number AG219101-11

Standard Expiration Date 07/09/2014

Tank Pressure 159

Barometric Pressure 731 mmHg

Blow Sample Number 1 Blow Duration 3.58 sec

Blow Volume 1757 cc End-of-Blow Time 16:56

Blow Sample Number 2 Blow Duration 3.61 sec

Blow Volume 1729 cc End-of-Blow Time 16:58

Tamper Evident Stamp ce626174

Test Status Code 0

Test Status Success